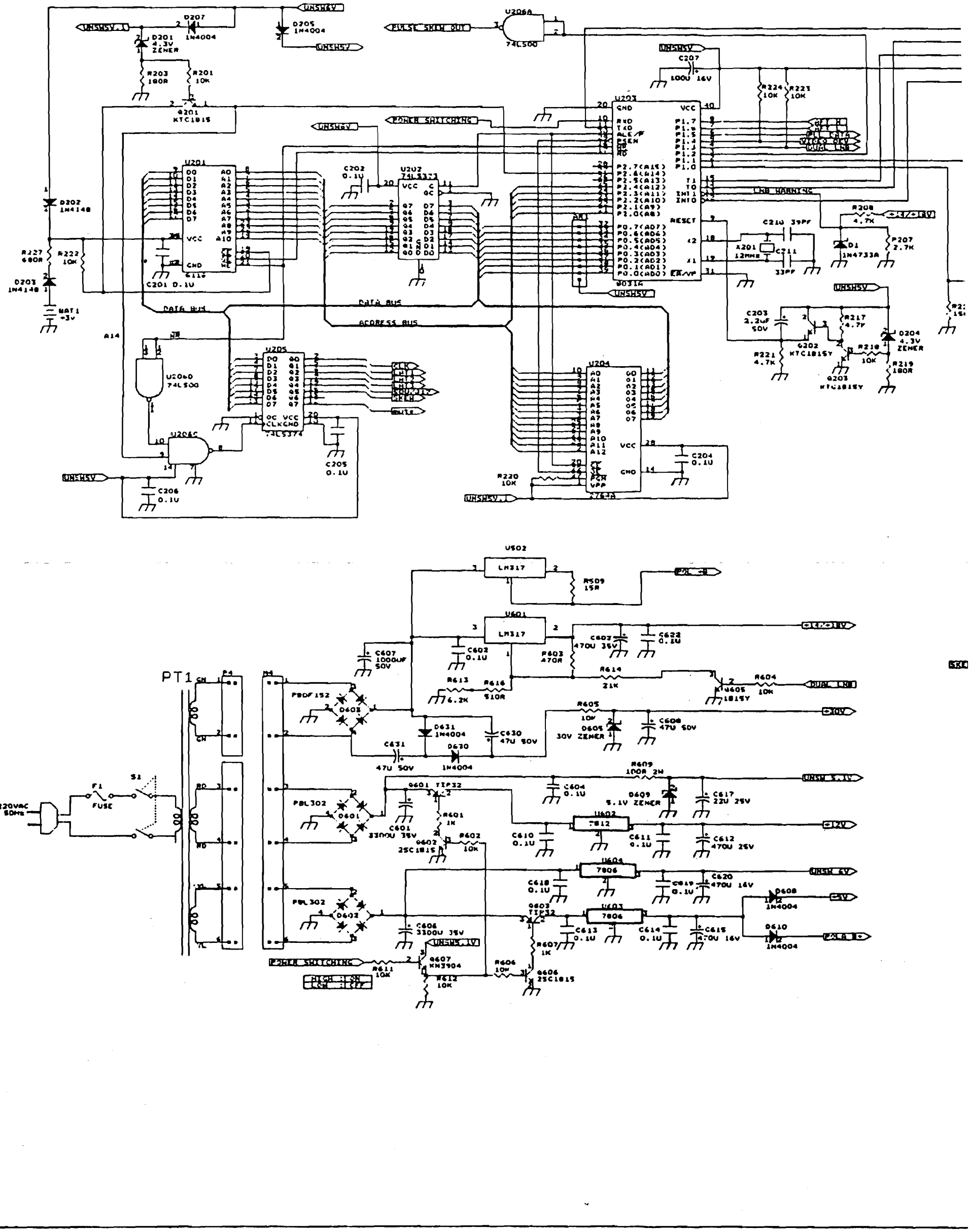
935 000 91 A

SCHEMATIC DIAGRAM OF
HSR3200N CONTROL/POWER
UFD-90 CONTROL/POWER
** 2-SCART VERSION**



FRONT PCB ASSY

POWER
STEP UP
STEP DN
UNSWSV
SIGNAL

P2
R22 10K
R23 10K
R24 10K
POWER SW4
CHANNEL UP SW5
CHANNEL DOWN SW6
R28 68R
R27 27K
C2 22U 16V
REMOCON SENSOR MODULE
VCC
OUT
GND
RM1

UNSW 5V
R6 10K
R8 10K
R10 10K
C5 470U 16V
Q1 2N4402
Q2 2N4402
Q3 2N4402
R5 2.2K
R7 2.2K
R9 2.2K
R40 10K

DP1

U1 MS480
DATA
CLK
GND
VDD
BRIGHT
R1 6.8K
C1 0.01U

R33 4.2K
R34 2.49K
R35 4.9K
R36 10K
R37 20K
R38 40.2K
R39 80.6K

P3
POL DAC
DATA
CLK
UNSWSV

P21
STEREO
MONO HO
MONO NO
POLARITY
+12V

R25 1K
R16 1K
R18 1K
R20 1K
R21 10K
R19 10K
R17 10K
R26 10K
R31 8.2K
R30 10K
R29 10K
R32 10K
Q7 KN3904
Q6 KN3904
Q5 KN3904
Q9 KN3904
Q8 KN3904
R33 1K
R14 10K
R15 10K
R13 470R
Q4 KN3904
LED1 STBY
RX1 10K
LED2 HOR
LED3 VER
LED4 STEREO
LED5 MONO HO
LED6 MONO NO
R11 470R
R12 470R
R2 68OR
R3 68OR
R4 68OR

R225 15K
P21
STEREO
MONO HO
MONO NO
POLARITY
+12V

PULSE SKEW
POL B+
R615 2.7R 1W
R507 2.7R 1W
OPTION: POLARIZER SELECTION
P39
POL SELECT
MECHANIC
MAGNETIC
P5
TB1
H/V
GND
MAG2 (PULSE)
MAG1 (+5V)
C520 1000P

POL +B
Q515 MPSA77
Q516 MPSA77
R539 100K
R540 100K
Q510 2SC1815
Q518 2SC1815
VCC 6V
R546 3.3K
R501 10K
Q508 KTA1015Y
R545 470R
R537 10K
VCC12V
R520 91K
VR54 10K
R524 1.2K
U501A LM358
Q504 RSN161Y
Q517 TIP31
R523 10K
R515 4.7K
POL DAC
D501 5.6V
R514 47R 1W
D508 1N4004
D509 1N4004
Q512 MPSA77
Q506 MPSA77
R513 100K
R512 100K
Q511 2SC1815
Q507 2SC1815
R517 47K
D502 1N4004
D503 1N4004

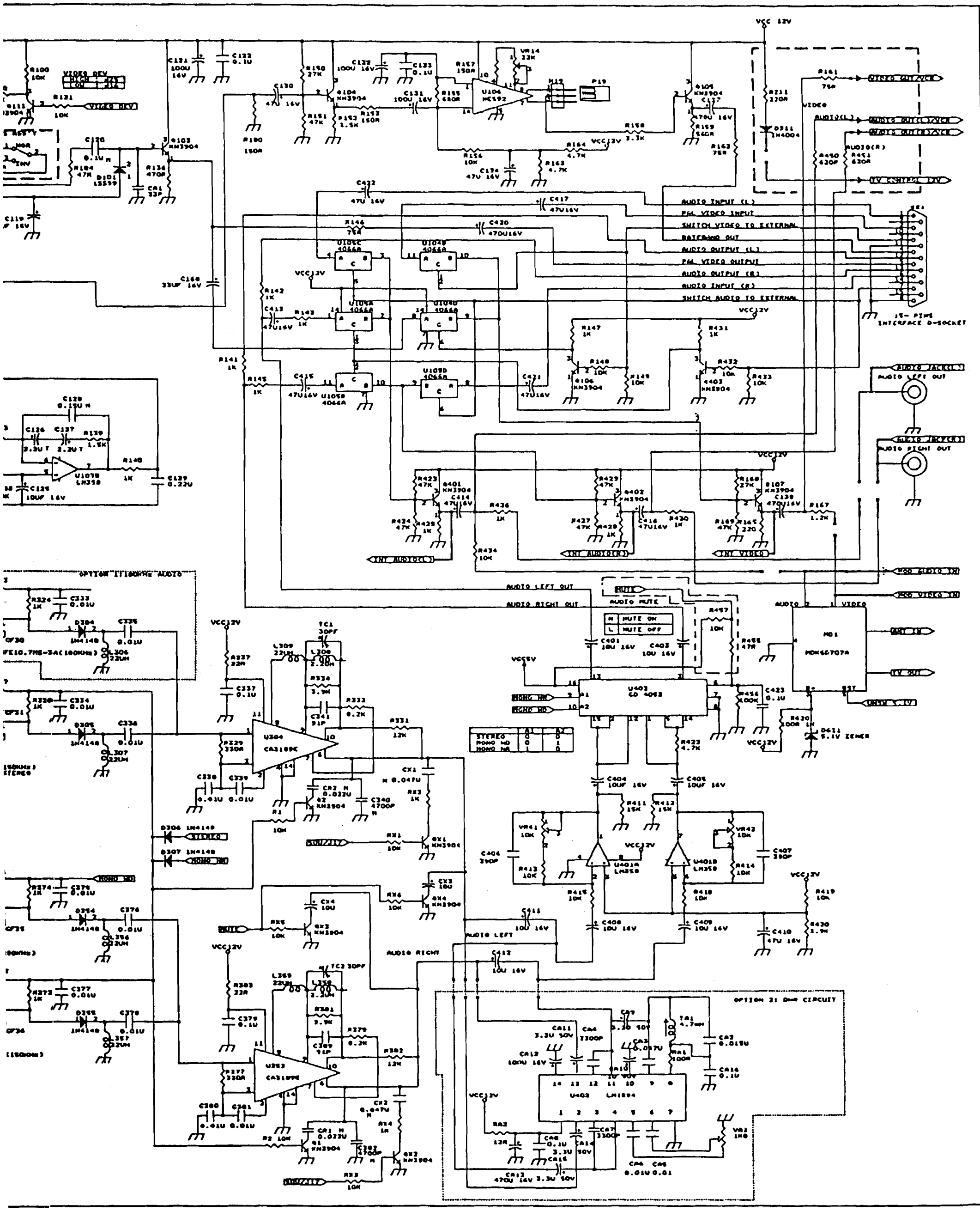
ADDITIONAL BLOCK FOR
2-SCART VERSION

SS2
SCART TO VCR
AUDIO OUT(L)/VCR
EXT AUDIO(L)/VCR
AUDIO OUT(R)/VCR
EXT AUDIO(R)/VCR
TV CONTROL/VCR
RR20 1.2K 1/8W
MOD VIDEO IN
RR19 75R 1/8W
VIDEO OUT/VCR
EXT VIDEO/VCR
SCART

UNSW 5V
RR1 4.7K 1/8W
Q91 KN3904
RR2 10K 1/8W
CC7 470U 16V
RR3 220R 1/8W
RR9 10K 1/8W
Q93 KN3904
CC8 22U 16V
RR8 22K 1/8W
RR15 470R 1/8W
RR4 420R 1/8W
RR16 620R 1/8W
AUDIO JACK(L)
MOD AUDIO IN
RR18 10K 1/8W
TV CONT
RR5 620R 1/8W
Q92 KN3904
RR6 10K 1/8W
RR7 22K 1/8W
CC9 22U 16V
RR14 470R 1/8W
RR17 620R 1/8W
AUDIO JACK(R)

VCC12V
RR12 220R 1/8W
DD1 1N4004
TV CONTROL 12V
DD2 1N4004
TV CONTROL VCR
TV CONT
EXT VIDEO
EXT VIDEO/VCR
EXT AUDIO(L)
EXT AUDIO(L)/VCR
EXT AUDIO(R)
EXT AUDIO(R)/VCR
CC4
CC3 47U 16V
CC6
CC1 22U 16V
CC5
CC2 22U 16V
UU1
X0
X1
Y0
Y1
Z0
Z1
INH
A
B
C
VDD
VSS
VEE
4053
VIDEO
AUDIO(L)
AUDIO(R)
UNSW 5V
CC10 0.1U
CC11 47U 16V
DD3 1N4148
RR10 47K 1/8W
RR11 39K 1/8W

SS3
SCART TO TV
RR1
RR2


VCC 12V
VIDEO DEV
R100 10K
R121 10K
C121 100U 16V
C122 0.1U
C130 47U 16V
R150 27K
R151 47K
R152 1.5K
R153 150R
Q104 KN3904
C132 100U 16V
C133 0.1U
C131 100U 16V
R157 150R
U106 MC592
VR14 22K
P19
R158 3.3K
Q105 KN3904
C135 470U 16V
R159 560R
R162 75R
R211 220R
D211 1N4004
R161 75R
VIDEO OUT(VCR)
VIDEO
AUDIO(L)
AUDIO OUT(VCR)
AUDIO(R)
R450 620R
R451 620R
TV EXPORT 12V
R164 4.7K
R163 4.7K
R156 10K
C134 47U 16V
C136 0.1U
R180 150R
C119 16V
C120 0.1U
R184 47R
D101 1S599
R136 470R
C81 33P
Q103 KN3904
C432 47U 16V
C417 47U16V
C420 470U16V
R146 75R
AUDIO INPUT (L)
PAL VIDEO INPUT
SWITCH VIDEO TO EXTERNAL
BASEBAND OUT
AUDIO OUTPUT (L)
PAL VIDEO OUTPUT
AUDIO OUTPUT (R)
AUDIO INPUT (R)
SWITCH AUDIO TO EXTERNAL
J21
15- PINS INTERFACE D-SOCKET
U105C 4066A
U105B 4066A
U105A 4066A
U104B 4066A
C160 33UF 16V
R142 1K
C413 47U16V
R143 1K
R141 1K
R145 1K
C415 47U16V
U105D 4066A
U105C 4066A
C421 47U16V
R147 1K
R431 1K
R148 10K
R149 10K
Q106 KN3904
R432 10K
R433 10K
Q403 KN3904
AUDIO JACK(L)
AUDIO LEFT OUT
AUDIO JACK(R)
AUDIO RIGHT OUT
C128 0.15U M
C126 2.2U T
C127 2.2U T
R139 1.5K
U107B LM358
R140 1K
C129 0.22U
C125 10UF 16V
R423 47K
Q401 KN3904
C414 47U16V
R424 47K
R425 1K
R426 1K
R434 10K
R429 47K
Q402 KN3904
R427 47K
R428 1K
C416 47U16V
R430 1K
R169 47K
R165 220
Q107 KN3904
C138 470U16V
R167 1.2K
INT AUDIO(L)
INT AUDIO(R)
INT VIDEO
OPTION "11.15MHz AUDIO"
R324 1K
C333 0.01U
D304 1N4148
C335 0.01U
L306 22UH
R330 1K
C334 0.01U
D305 1N4148
C336 0.01U
L307 22UH
D306 1N4148
STEREO
D307 1N4148
MONO MD
C376 0.01U
D294 1N4148
C376 0.01U
L296 22UH
R273 1K
C377 0.01U
D295 1N4148
C378 0.01U
L297 22UH
MUTE
VCC12V
R327 22R
C337 0.1U
L309 22UH
TC1 30PF
L308 2.20H
R334 3.9K
C341 91P
R332 0.2K
R331 12K
U304 CA3189E
R329 330R
C338 0.01U
C339 0.01U
CR2 M 0.022U
Q2 KN3904
C340 4700P M
R1 10K
CX1 M 0.047U
RX2 1K
QX1 KN3904
RX1 10K
SOUNDZ1V
CX3 10U
QX4 KN3904
RX4 10K
CX4 10U
QX3 KN3904
RX5 10K
R383 22R
C379 0.1U
L369 22UH
L368 2.20H
TC2 30PF
R381 3.9K
C389 91P
R379 0.2K
R382 12K
U383 CA3189E
R377 330R
C380 0.01U
C381 0.01U
CR1 M 0.022U
Q1 KN3904
C387 4700P M
R3 10K
CX2 0.047U M
R14 1K
QX2 KN3904
RX3 10K
AUDIO LEFT OUT
AUDIO RIGHT OUT
AUDIO MUTE
N MUTE ON
L MUTE OFF
C401 10U 16V
C403 10U 16V
R457 10K
R458 47R
M01 MDK66707A
ANT IN
TV OUT
U403 CD 4052
R456 100K
C423 0.1U
R420 100R 1W
D611 5.1V ZENER
R422 4.7K
C404 10UF 16V
C405 10UF 16V
R411 15K
R412 15K
VR41 10K
VR42 10K
C406 390P
R413 10K
U401A LM358
U401B LM358
C407 390P
R414 10K
R415 10K
R410 10K
R419 10K
C408 10U 16V
C409 10U 16V
C410 47U 16V
R420 3.9K
C411 10U 16V
C412 10U 16V
AUDIO LEFT
AUDIO RIGHT
OPTION 21 DOLBY CIRCUIT
C69 3.3U 50V
TA1 4.7MH
CA11 3.3U 50V
CA4 3300P
CA2 0.015U
CA12 100U 16V
CA3 0.047U
RA1 100R
CA16 0.1U
U402 LM1894
RA2 12R
CA8 0.1U
CA14 3.3U 50V
CA7 3300P
CA13 470U 16V 3.3U 50V
CA5 0.01U
CA6 0.01
VR1 1K0

2423

935 000 91 A

SCHEMATIC DIAGRAM OF ** 2-SCART VERSION**

HSR-3200N MAIN
UFD-90 MAIN